

# Smart-UPS 230V

Advanced line interactive power protection  
for servers and network equipment



## The world's most popular network and server UPS

The award-winning Smart-UPS® from APC by Schneider Electric is the most popular UPS in the world for servers, storage and networks. Trusted to protect critical data and equipment from power problems, the UPS supplies clean and reliable network-grade power. In addition to legendary reliability and manageability, Smart-UPS have extremely high efficiency at low, medium and high load levels, making them ideal for today's multi-core or virtualized servers that have varying load consumption. Available in a variety of form factors (tower, rack mount, rack/tower convertible), there is a model for every application and budget.

Intelligent and efficient network power protection from entry level to scalable runtime. Ideal for servers, point-of-sale, routers, switches, hubs and other network devices.

- Reliable
- Intelligent
- Efficient
- Manageable

**APC**  
by Schneider Electric

# Smart UPS Tower and Rackmount 750-3000VA

Application optimized standard models  
ideal for servers, storage, point of sale  
and other network devices



[ SMT1000I ]



[ SMT1500RMi2U ]



[ SMT3000RMi2U ]



## Standard Features

**High Efficiency Green Mode:**  
Optimum efficiency which saves utility and cooling costs

**Emergency Power Off (EPO):**  
Provides for remote UPS shutdown in the event of a fire or other emergency (2200VA and above)

**Alphanumeric LCD Display:**  
Intuitive interface provides detailed and accurate information with ability to configure locally.

**Network-Grade Power:**  
Conditioning Extended range automatic voltage regulation (AVR), noise filtering, and surge protection.

**Communication Ports Serial:**  
USB, and Smart-slot for accessory cards.

**Advanced Battery Management:**  
Temperature- compensated charging extends life and advanced algorithms recommend replacement date.

**Switched Outlet Group:** Reboot hung devices, shed non-critical loads to conserve runtime, sequenced start-up/turn off.

**Battery Disconnect:** Convenient way to disconnect battery for transport.

# Smart UPS® Extended Run 750-3000VA

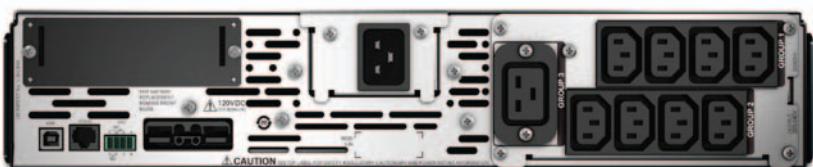
Convertible extended run models ideal for critical servers and voice/data switches.



[ SMT3000ORMI2U ]



[ SMX1500ORMI2UNC ]



[ SMX3000ORMHV2U ]

## Additional Features

### **Slim 2U Rack/Tower Convertible Form**

Display rotates easily for use in or out of a rack.

### **High Frequency Design**

Reduces size of (or eliminates) bulky transformers making installation even easier.

### **High Voltage Models**

#### **(2.2kVA and above)**

Configurable output from 200-240 on high voltage models.

### **Models available with Pre-installed Network Cards**

Models with "NC" suffix have pre-installed AP9631 network cards with temperature monitoring.

### **Smart External Battery Connector**

Accept external batteries and increases runtime automatically to increase availability.

### **Switched Outlet Groups**

Reboot hung devices, shed non-critical loads to conserve runtime, sequenced start-up/turn off.

### **Emergency Power Off (EPO)**

Provides for remote UPS shutoff in the event of a fire or other emergency.

# Product Accessories

## Management Cards

AP9630: UPS Network Management Card  
 AP9631: UPS Network Management Card with Environmental Monitoring  
 AP9620: Legacy Communications SmartSlot Card  
 AP9625: APC SmartUPS Two Post Rail Kit

## Battery Packs

SMX48RMBP2U: APC Smart-UPS X-Series 48V External Battery Pack Rack/Tower  
 SMX120RMBP2U: APC Smart-UPS X 120V External Battery Pack Rack/Tower

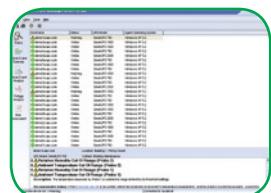
## Service Bypass Panels

SBP1500RMI: APC Service Bypass PDU, 230V 10AMP W/ (6) IEC C13  
 SBP3000: APC Service Bypass Panel- 100-240V; 30A; BBM; Hardwire Input/Output  
 SBP3000RMHW: APC Service Bypass Panel- 100-240V; 30A; BBM; Hardwire Input/Output

SBP3000RMI: APC Service Bypass PDU, 230V 16AMP W/ (6) IEC C13 AND (1) C19



AP9631



PowerChute™ Business Edition



SBP3000RMI

## Runtime Estimates for standard models

UPS VA	750	750 RM 2U	1000	1000 RM 2U	1500	1500 RM 2U	2200	2200 RM 2U	3000	3000 RM 2U
50W	1:43	2:04	3:03	3:26	5:01	5:21	8:51	5:19	8:51	5:47
100W	:50	1:00	1:40	2:02	2:52	3:05	5:36	3:06	5:36	3:22
200W	:22	:23	:45	1:00	1:24	1:31	3:05	1:38	3:05	1:46
300W	:12	:11	:25	:35	:51	:55	2:02	1:04	2:02	1:10
400W	:07	:07	:15	:23	:33	:37	1:28	:47	1:28	:52
500W	:05		:10	:15	:23	:26	1:06	:37	1:06	:40
600W			:07	:11	:17	:19	:52	:30	:52	:33
700W					:12	:14	:42	:25	:42	:27
800W					:10	:11	:34	:21	:34	:23
900W					:08	:09	:28	:18	:28	:20
1000W							:24	:16	:24	:17
1200W							:17	:12	:17	:13
1400W							:13	:10	:13	:11
1600W							:10	:08	:10	:09
Full Load	:05	:06	:06	:09	:07	:07	:07	:05	:06	:03

Extended-run models that accept external battery packs are also available. Go to [www.apc.com](http://www.apc.com) for estimated runtimes.

# Smart-UPS Display

Intuitive, easy to use LCD interface.



## Standard Features

### LCD Display Screen

Clear, consistent and detailed information in your choice of basic or advanced menus.

### Power Status:

- Operating mode and efficiency
- Load VA/Watts/Amps
- Input/Output Voltage and frequency
- Battery capacity and runtime
- Energy meter and more

### Control:

- UPS and outlet group settings

### Configuration:

- Language
- Power quality setting
- Sensitivity
- Voltage transfer points
- Alarm, delay and threshold settings

### Test and diagnostics:

- Initiate battery and runtime calibration tests

### Logs:

- See explanation of last ten transfers and faults

### About:

- UPS and replacement battery part numbers
- Serial numbers
- Battery install and suggested replacement dates

### Quick Status Indicators

Online, on battery, fault and replace battery LEDs for quick status identification.

### Escape

Exits to the previous menu or screen.

### Return

Used to enter or confirm settings.

### Navigation arrows

Allows quick adjustment of settings.

## Standard Tower models

Product feature	SMT750I	SMT1000I	SMT1500I	SMT2200I	SMT3000I						
<strong>Output</strong>											
Power Capacity	500 W/750 VA	700 W/1000 VA	1000 W/1500 VA	1980 W/2200 VA	2700 W/3000 VA						
Nominal Output Voltage	230 V (also configurable to 220 or 240 V nominal)										
Output Frequency	47 – 53 Hz for 50 Hz nominal; 57 – 63 Hz for 60 Hz nominal										
Wave Form Type	Sine wave										
Output Connections	(6) IEC320 C13	(8) IEC320 C13		(8) IEC320 C13 and (1) IEC320 C19							
		Outlets arranged in two groups of which one is controllable									
<strong>Input</strong>											
Nominal Input Voltage	230 V										
Input Voltage Range for main operations (Max adjustable range)	160 – 285 V (151 – 302 V)										
Input Frequency	50/60 Hz +/- 3 Hz (auto sensing)										
Input Connection	IEC320 C14			IEC-320 C20, Schuko CEE 7 / EU1 - 16P, British BS1363A							
<strong>Batteries and Runtime</strong>											
Battery Type	Maintenance-free sealed lead-acid battery with suspended electrolyte, leak proof										
Replacement Battery	RBC48	RBC6	RBC7	RBC55							
<strong>Communication and Management</strong>											
Interface Ports	Serial (RJ45), USB, and SmartSlot										
Control Panel and audible alarms	Alpha-numeric LCD display with LED status indicators; alarm on battery, distinctive low battery alarm and configurable delays										
Emergency Power off (EPO)	Optional			Yes							
<strong>Physical</strong>											
Maximum Height cm (in)	16.1 cm (6.3 in)	21.9 cm (8.6 in)	21.9 cm (8.6 in)	43.5 cm (17.1 in)							
Maximum Width cm (in)	13.8 cm (5.4 in)	17.1 cm (6.7 in)	17.1 cm (6.7 in)	19.7 cm (7.8 in)							
Maximum Depth cm (in)	36.3 cm (14.3 in)	43.9 cm (17.3 in)	43.9 cm (17.3 in)	54.4 cm (21.4 in)							
Net Weight kg (lbs)	13.2 kg (29 lbs)	18.86 kg (42 lbs)	24.1 kg (53 lbs)	48.8 kg (108 lbs)	52.5 kg (116 lbs)						
<strong>Conformance</strong>											
Regulatory	C-tick, CE, EN 50091-1, EN 50091-2, VDE										
Warranty	3 years electronics, 2 years battery										

## Standard Rackmount models

Product feature	SMT750RMI2U	SMT1000RMI2U	SMT1500RMI2U	SMT2200RMI2U	SMT3000RMI2U		
<b>Output</b>							
Power Capacity	500 W/750 VA	700 W/1000 VA	1000 W/1500 VA	1980 W/2200 VA	2700 W/3000 VA		
Nominal Output Voltage			230 V				
Output Frequency		47 – 53 Hz for 50 Hz nominal; 57 – 63 Hz for 60 Hz nominal					
Wave Form Type		Sine wave					
Output Connections (Note: Outlets arranged in two groups of which one is controllable)	(4) IEC320 C13			(8) IEC320 C13 (1) IEC320 C19			
<b>Input</b>							
Nominal Input Voltage		230 V					
Input Voltage Range for main operations (Max adjustable range)		160 – 286 V (150 – 300 V)					
Input Frequency		50/60 Hz +/-3 Hz (auto sensing)					
Input Connection	IEC320 C14			IEC320 C20			
<b>Batteries and Runtime</b>							
Battery Type	Maintenance-free sealed lead-acid battery with suspended electrolyte, leak proof						
Replacement Battery	APCRBC123	APCRBC132	APCRBC133	RBC43			
<b>Communication and Management</b>							
Interface Ports	Serial (RJ45), USB, and SmartSlot						
Control Panel and audible alarms	Alpha-numeric LCD display with LED status indicators; alarm on battery, distinctive low battery alarm, and configurable delays						
Emergency Power off (EPO)	Optional			Yes			
<b>Physical</b>							
Maximum Height (in)	8.9 cm (3.5 in)	8.9 cm (3.5 in)	8.9 cm (3.5 in)	8.6 cm (3.39 in)	8.6 cm (3.39 in)		
Maximum Width (in)	43.2 cm (17 in)	43.2 cm (17 in)	43.2 cm (17 in)	48 cm (18.9 in)	48 cm (18.9 in)		
Maximum Depth (in)	40.6 cm (16 in)	45.7 cm (18 in)	45.7 cm (18 in)	68.3 cm (26.9 in)	68.3 cm (26.9 in)		
Net Weight	17.27 kg (38 lbs)	28.18 kg (62 lbs)	28.64 kg (63 lbs)	42.31 kg (93 lbs)	44.28 kg (97.4 lbs)		
<b>Conformance</b>							
Regulatory	C-tick, CE, EN 50091-1, EN 50091-2, GOST, TUV, VDE				C-tick, CE, EN 60950, EN/IEC 62040 -1-1, EN/IEC 62040 -2, GOST, GS Mark, IRAM, VDE, WEEE		
Warranty	3 years electronics, 2 years battery						

# Extended Run Rack/Tower Convertible models

Product feature	SMX750I	SMX1000I	SMX1500RMI2U	SMX2200RMHV2U	SMX3000RMHV2U		
<strong>Output</strong>							
Power Capacity	600 W/750 VA	800 W/1000 VA	1200 W/1500 VA	1980 W/2200 VA	2700 W/3000 VA		
Nominal Output Voltage	230 V (also configurable to 220 or 240 V nominal)						
Output Frequency	47 – 53 Hz for 50 Hz nominal; 57 – 63 Hz for 60 Hz nominal						
Wave Form Type	Sine wave						
Output Connections (Switched groups)	(8) IEC320 C13 outlets (750 has 1 group, 1000 has 2 groups, 1500 has 3 groups)			(8) IEC320 C13 (1) IEC320 C19 outlets (3 switched outlet groups)			
<strong>Input</strong>							
Nominal Input Voltage	230 V			200 – 240 V			
Input Voltage Range for main operations (Max adj. range)	160 – 286 V (150 – 300 V)			140 – 280 V			
Input Frequency	50/60 Hz +/- 3 Hz (auto sensing)						
Input Connection	IEC320 C14			IEC320 C20			
<strong>Batteries and Runtime</strong>							
Battery Type	Maintenance-free sealed lead-acid battery with suspended electrolyte, leak proof						
Typical Backup Time at 1/2 Load (min)	24 min	20 min	14 min	26 min	14 min		
Typical Backup Time at Full Load (min)	12 min	8 min	5 min	7 min	5 min		
Replacement Battery	APCRBC116		APCRBC115	APCRBC117			
External Battery Pack	SMX48RMBP2U			SMX120RMBP2U			
Replacement Battery	APCRBC115			APCRBC11B			
<strong>Communication and Management</strong>							
Interface Ports	Serial (RJ45), USB, and, SmartSlot						
Control Panel and Alarms	Alpha-numeric LCD display with LED status indicators; alarm on battery, distinctive low battery alarm and configurable delays						
Emergency Power off (EPO)	Yes						
<strong>Surge Protection and Filtering</strong>							
Surge Energy Rating	540 J						
Filtering	Full time multi-pole noise filtering: 0.3% IEEE surge let-through, zero clamping response time, meets UL1449						
<strong>Physical</strong>							
Maximum Height (in)	8.9 cm (3.5 in) (2U)						
Maximum Width (in)	43.2 cm (17 in)						
Maximum Depth	49 cm (19 in)			66.7 cm (26.26 in)			
Net Weight 20 kg	(48.5 lbs)	22.9 kg (50.3 lbs)	24.8 kg (54.6 lbs)	37.3 kg (82.1 lbs)			
<strong>Conformance</strong>							
Regulatory	C-tick, CE, EN 50091-1, EN 50091-2, VDE			C-tick, CE, CSA, EN 50091-1, EN 50091-2, FCC Part 15 Class A, GOST, IEC60950, IRAM, UL 1778, VDE			
Warranty	3 years electronics, 2 years battery						